US ERA ARCHIVE DOCUMENT

MMey: rjj 7/21/66

Evaluation for Temporary Permit for Tetrachloroisophthalonitrile Application of July 8, 1966 by Dismond Alkali

Registration No. 677-Exp.

INTRODUCTION

The name of the product is Decomil 2787 Fungicide for Potatoes containing 75% Decomil.

On Movember 18, 1965, Robert Caswell reviewed this application on MR use and approved. Under new laws this use needs tolerance or temporary tolerance.

Biamond Alkali has petition FDA for a temporary telerence of 1 ppm. in or on potetoes.

DIRECTIONS FOR THE

Apply 1 to 1 1/2 lbs./A (0.67 to 1.125 lbs.A/A), begin when plants are 6" high. Repeat at 7 to 10 day intervals throughout season to vine killing time. Under severe disease conditions, use 1 1/2 lbs./A and shorten intervals.

CONCLUSIONS AND RECOMMENDATION

We can grant this parmit when FDA establishes a temporary tolerance.

W

RENey180g 4/20/66

For Tetrachleroisophthalonitrile (Dasonil)
Application of March 9, 1966,
By Diamond Alkali Company

Registration Number 677-Exp.-3 @

INTRODUCTION

This is a renewal of a previously accepted temporary permit. There are no data and no directions for use on the label.

There is a statement on the label that states, "Treated food or feed must not be used except for chemical analysis or as food for experimental animals." With this statement no data would be meeded.

The name of the product is Deconil 2787 Fungicide 75% NP.

RECOMMENDATIONS

It is recommended that this permit be granted.

Rifesuell:seg

Evaluation of Data to Support HR Registration of Daconil 2787 on Potatoes Submitted by Diamond Alkali 11/9/65

IMACOUNTION_

Decomil 2787 is tetrachloroisophthalomitrile. The formulation is 75% WP. This is the first MR use submitted, but application has been made for "Forturf" a product for ornamentals. See memorandum of conference of Hovember 9, 1965.

DISECTIONS FOR USE

One to two pounds per sore in sufficient water. Start when plents are two to six inches high, repeat at 3 to 10 day intervals.

AMALITICAL HETHOD

A gas chromatographic method, with microcoulometric detector was used; it was said to have a sensitivity of 0.02 ppm. The potatoes were either surface extracted with methylene chloride, or sliced and blended with methylene chloride (total residue). Clean up is as described by Schuldt et al (Boyce Thompson Institute 21 No. 2) in a clean up for Decthal. The DAG-2787 is cluted with 5% acctons in methylene chloride, evaporated made to volume in bemsene, and an aliquot injected into the GG (6 ft. SE-30 column was used).

DATA

Date for potatoes treated with 1.0-2.0 lbs./100 gal, up to 12 applications. 100 gal./acre would correspond to the label dosage, up to 250 gal./acre may be sprayed.

He residues were detected on unshed potatoes, three residues up to .05 pps were found on unseased potatoes.

Soil analyses: 22.6 ppm is reduced to 1.5 ppm and 36.9 ppm is reduced to 5.3 ppm in 36 days at 76° F. Hore rapid disappearance at higher temperature.

In the dog and rat, the compound is entirely excreted in the faces. Metabolisms About 90% as unchanged compound and some as a metabolite.

They have not found evidence for any of the potential metabolites in plants or soil. A this layer chrometograph on treated rotatoes and universal potatoes should no differences (but, the significance could not be judged because the sensitivity is not known).

Some raw data were submitted, poorly decommented. The fortification level was 0.5 pps, which is to insdequate (although the sliquots taken indicate that the method is sufficiently sensitive).

Additional rew data were submitted with letter of Hovember 12, 1965. The fortification level was 0.05 ppm. Some of the chromatograms show a very strong beckground (checks and treated emples), but there was interference on only a few of the samples.

The donnges on the label are 1 to 2 lbs./sure, the date are for 1 to DISCUSSION AND CONCLUSION 2 lbs./100 gallons, this corresponds to the dosego.

The potatoes may be washed before analysis; FDA instructions for sampling call for "removal of adhering soil by a light rines in unter."

RECOMENDATION

That this use be accepted for registration.